



# STIC Search Report

## EIC 2100

STIC Database Tracking Number: 10367

TO: Thomas M Ho  
Location: RND 2B15  
Art Unit : 2134  
Tuesday, May 10, 2005

Case Serial Number: 09/976050

From: Carol Wong  
Location: EIC 2100  
RND 4A30  
Phone: 272-3513

[carol.wong@uspto.gov](mailto:carol.wong@uspto.gov)

### Search Notes

Dear Examiner Ho,

Attached are the search results (from commercial databases) for your case.

Color tags mark the patents/articles which appear to be most relevant to the case. Due to the 3-hr. F&F time limitation, only patent files have been searched.

Please call if you have any questions or suggestions for additional terminology, or a different approach to searching the case.

Thanks,  
Carol



# STIC EIC 2100 153021 Search Request Form

Today's Date: 5/10/05

What date would you like to use to limit the search?

Priority Date: Jan 2001

Other:

Name Thomas M.

AU 2134 Examiner # 79972

Room # 2B15 Phone 571 272 3835

Serial # 09976050

Format for Search Results (Circle One):

PAPER DISK EMAIL

Where have you searched so far?

USP DWPI EPO JPO ACM IBM TDB

IEEE INSPEC SPI Other Google

Is this a "Fast & Focused" Search Request? (Circle One) YES NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

SMART CARD COPIER <sup>token</sup> <sup>copy data</sup>  
copies or transfers a key from one Smartcard to another.

SmartCard to SmartCard communication

Things I have found but are useless:

- ~~see~~ Xerox or "copy machines" which use smartcards.

- Systems that use smartcard to authenticate a user to a system.

- Systems that prevent unauthorized copying of smartcards.

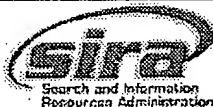
Smartcard is also known as an IC Card.

STIC Searcher C. Wang

Phone 272 3513

Date picked up 5-10

Date Completed 5-10-05



File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)

(c) 2005 JPO & JAPIO

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200529

(c) 2005 Thomson Derwent

File 344:Chinese Patents Abs Aug 1985-2004/May

(c) 2004 European Patent Office

File 371:French Patents 1961-2002/BOPI 200209

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Set	Items	Description
S1	5468	AU=NISHIMURA S?
S2	296	SMARTCARD? OR CHIPCARD? OR INTELLIGENTCARD? OR ICCARD? ? OR MICROCHIPCARD? OR HYPRIDCARD? OR COMBICARD? OR MULTICARD?
S3	7	MEMOCARD? OR MEMORYCARD? OR UNIVERSALCARD?
S4	41	SMARTCHIP? OR SMART()CHIP? ?
S5	258	DIGITAL() (PURSE? ? OR WALLET? ?) OR ELECTRONIC()PURSE? ?
S6	415	ICC OR ICCS
S7	200250	CARD OR CARDS
S8	6696	(MULTIAPPLICATION? OR MULTI()APPLICATION? OR STORED()VALUE? ? OR PREPAID OR PRE()PAID OR EFTS OR DUAL()INTERFACE?) (1W)S7
S9	1	ELECTRONIC()FUND? ?() (TRANSFERR? OR TRANSFER??? ?) (1W)S7
S10	3353	SINGLE(1W) (INLINE OR LINE) (1W) (MEMORY? OR MEMORIES) (1W)MODULE? ? OR SIM OR SIMS OR SIMM OR SIMMS
S11	37252	(SMART OR IC OR HYBRID OR INTEGRATED()CIRCUIT? OR INTELLIGENT OR PROCESS?R? ? OR MULTI OR MICROPROCESS?R? ?) (1W)S7
S12	7291	(MICROCHIP OR CONTACTLESS OR MEMO OR UNIVERSAL OR CONTACT - OR TWIN OR COMBI OR PROXIMITY OR VICINITY OR CHIP) (1W)S7
S13	17011	(TRANSACTION? ? OR MEMORY) (1W)S7
S14	0	TWINCARD? OR CONTACTCARD? OR TRANSACTIONCARD?
S15	247874	KEY? ? OR TOKEN? ?
S16	6923	(ENCRYPT? OR ENCIPHER? OR ENCPYPER? OR CRYPTO?) (1W) (DATA OR INFORMATION)
S17	8109	CIPHER? OR CYPHER?
S18	7090	S15:S17(3N) (DUPLICAT? OR COPY? OR COPIES OR COPIED OR REPLICAT? OR REPRODUC? OR REPLICA? OR RECREAT? OR RECONSTRUCT?)
S19	3663	S15:S17(3N) (RECORD? ? OR RECORDED OR RECORDING)
S20	134	S15:S17(3N) (REGENERAT? OR CLONE? ? OR CLONING)
S21	7	S15:S17(3N)RE() (PRODUC???? ? OR CREAT???? ? OR CONSTRUCT? - OR GENERAT???? ?)
S22	14418	S15:S17(3N) (WRITE? ? OR WRITTEN OR WROTE OR SAVE? ? OR SAVING OR STORAGE OR STORE OR STORES OR STORED OR STORING)
S23	5928	S15:S17(3N) (TRANSFERR? OR TRANSFER??? ? OR EXCHANG? OR UPLOAD? OR DOWNLOAD? OR LOAD??? ? OR SWAP? OR ACQUIR? OR ACQUISITION?)
S24	22	S15:S17(3N) (EXPORT? OR IMPORT? ? OR IMPORTED OR IMPORTING - OR IMPORTATION?)
S25	21966	S15:S17(3N) (SEND??? ? OR SENT OR TRANSMIS? OR TRANSMIT? OR XFER? OR RECEIV? OR RECEPTION OR RECEIPT?)
S26	64949	S2:S6 OR S8:S14
S27	1804	S26(3N) (DUPLICAT? OR COPY? OR COPIES OR COPIED OR REPLICA? OR REPRODUC? OR RECREAT? OR RECONSTRUCT?)
S28	29	S26(3N) (REGENERAT? OR CLONE? ? OR CLONING)
S29	1	S26(3N)RE() (PRODUC? OR CREAT? OR CONSTRUCT? OR GENERAT?)
S30	81	S27:S29 AND S22:S25
S31	3023	IC='G07F-007/10':IC='G07F-007/100'
S32	2405	IC='G06K-019/073':IC='G06K-019/0733'
S33	15376	IC='G06K-019/07':IC='G06K-019/071'
S34	33361	IC='G06K-017'
S35	26864	IC='B42D-015/10':IC='B42D-015/100'
S36	12143	IC='G09C-001/00':IC='G09C-001/004'

S37 39526 IC='H04L-009'  
 S38 23242 IC='G06F-001/00':IC='G06F-001/016'  
 S39 20185 IC='G06F-012/14':IC='G06F-012/144'  
 S40 61 S30 AND S31:S39  
 S41 12 S30 AND S32:S33  
 S42 26 S30 AND S34:S35  
 S43 26 S30 AND S38:S39  
 S44 41 S41:S43  
 S45 41 IDPAT (sorted in duplicate/non-duplicate order)  
 S46 38 IDPAT (primary/non-duplicate records only)  
 ? t46/9/4-5,8-9,12,15,17,37

46/9/4 (Item 4 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
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014809037 \*\*Image available\*\*  
 WPI Acc No: 2002-629743/200268  
 XRPX Acc No: N02-497806

Integrated circuit card terminal unit in card issuing system, stores  
 key taken out from original IC card, in backup card using card reader/  
 writer by transmitting encoding key setting instruction to backup  
 card

Patent Assignee: TOSHIBA KK (TOKE ); NISHIMURA S (NISH-I)

Inventor: NISHIMURA S

Number of Countries: 028 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1233381	A2	20020821	EP 2001124531	A	20011012	200268 B
US 20020114468	A1	20020822	US 2001976050	A	20011015	200268
JP 2002245427	A	20020830	JP 200143630	A	20010220	200273

Priority Applications (No Type Date): JP 200143630 A 20010220

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 1233381	A2	E 49	G07F-007/10	

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
 LI LT LU LV MC MK NL PT RO SE SI TR

US 20020114468 A1 H04L-009/00

JP 2002245427 A 20 G06K-019/07

Abstract (Basic): EP 1233381 A2

NOVELTY - A personal terminal unit (300) takes out a key stored  
 in a original IC card (TC) using a card reader/writer (306a) by  
 transmitting a key takeout instruction to the original IC card, and  
 stores the key in a backup card using a card reader/writer (306b) by  
 transmitting an encoding key setting instruction to the backup  
 card.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) IC card duplication method; and

(2) IC card processing system.

USE - Used in IC card issuing system.

ADVANTAGE - Generates a duplicate or backup card easily by safely  
 storing a key taken out from the original IC card, in the backup  
 card.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the card processing system.

Personal terminal unit (300)

Card reader/writer (306a,306b)

pp; 49 DwgNo 13/31  
Title Terms: INTEGRATE; CIRCUIT; CARD; TERMINAL; UNIT; CARD; ISSUE; SYSTEM;  
STORAGE; KEY; ORIGINAL; IC; CARD; CARD; CARD; READ; WRITING; TRANSMIT;  
ENCODE; KEY; SET; INSTRUCTION; CARD  
Derwent Class: T04; T05  
International Patent Class (Main): G06K-019/07 ; G07F-007/10; H04L-009/00  
International Patent Class (Additional): B42D-015/10 ; G06K-017/00 ;  
G06K-019/073 ; G09C-001/00; H04L-009/10  
File Segment: EPI  
Manual Codes (EPI/S-X): T04-K02; T05-H02C5C; T05-L03C5

46/9/5 (Item 5 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014703997 \*\*Image available\*\*  
WPI Acc No: 2002-524701/200256  
XRPX Acc No: N02-415558

Memory system has recording circuit which records duplication log after  
duplicating key information, and limiting circuit which limits  
duplication for second time after recording duplication log

Patent Assignee: MEGACHIPS KK (MEGA-N)  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002175218	A	20020621	JP 2000374265	A	20001208	200256 B

Priority Applications (No Type Date): JP 2000374265 A 20001208

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2002175218	A		11 G06F-012/14	

Abstract (Basic): JP 2002175218 A

NOVELTY - The system has a first memory card (10) which stores  
key information, and a second memory card (20) which stores the  
duplicate of key information copied from memory card. The  
memory card (20) has a recording circuit which records a duplication  
log after duplicating the key information, and a limiting circuit which  
limits the duplication for second time after recording the duplication  
log.

DETAILED DESCRIPTION - The second memory card performs reading of  
the key information.

USE - Used for storing control information of predetermined  
apparatus.

ADVANTAGE - Offers a memory system which duplicates key  
information between memory cards and is not restrained by the  
number of slots of an apparatus. Prevents leakage of information and  
illegal copy of the key information.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of  
the memory system. (Drawing includes non-English language text)

First memory card (10)

Second memory card (20)

pp; 11 DwgNo 2/6

Title Terms: MEMORY; SYSTEM; RECORD; CIRCUIT; RECORD; DUPLICATE; LOG; AFTER  
; DUPLICATE; KEY; INFORMATION; LIMIT; CIRCUIT; LIMIT; DUPLICATE; SECOND;  
TIME; AFTER; RECORD; DUPLICATE; LOG  
Derwent Class: P36; T01; T04; T05; W01; W04  
International Patent Class (Main): G06F-012/14  
International Patent Class (Additional): A63F-013/00; G06F-003/06;

G06K-019/00; G06K-019/07 ; H04L-009/08; H04L-009/10; H04L-009/32  
File Segment: EPI; EngPI  
Manual Codes (EPI/S-X): T01-C01; T01-H01C2; T04-K; T05-H05E; W01-A05A;  
W01-A05B; W04-X02A

46/9/8 (Item 8 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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013753452 \*\*Image available\*\*  
WPI Acc No: 2001-237664/200125  
XRPX Acc No: N01-169991

Prepaid card system generates encryption keys using each quantized data  
so as to decode characteristic data stored in variable information memory

Patent Assignee: NTT DATA TSUSHIN KK (NITE )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000259903	A	20000922	JP 9965772	A	19990312	200125 B

Priority Applications (No Type Date): JP 9965772 A 19990312

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2000259903	A	31	G07F-007/08	

Abstract (Basic): JP 2000259903 A

NOVELTY - Two card information recorded in variable information memory (111) of prepaid card (100) is reproduced and quantized separately. Encryption keys are generated using each quantized data. The decoding of characteristic data stored in variable information memory (112) is performed by encryption keys of both quantized data separately. Based on both the decoding result, duplicate prepaid card is detected.

DETAILED DESCRIPTION - Two card information are recorded in variable information memory (111) of prepaid card. The two card information is reproduced. Based on one reproduced information, encryption key is generated. The other reproduced information is the characteristic data of prepaid card. The encryption of characteristic data is performed with encryption key and is stored in variable information memory (112). The encrypted characteristic data in memory (112) is finally decoded, to detect duplicate copy of prepaid card. INDEPENDENT CLAIMS are also included for the following:

- (a) reading apparatus;
- (b) card discrimination method

USE - For detecting duplicate copy of prepaid card.

ADVANTAGE - Since decoding process performed is compared, correctness of card is checked and duplicate prepaid card is detected exactly.

DESCRIPTION OF DRAWING(S) - The figure shows the diagram of prepaid card.

Prepaid card (100)  
Variable information memories (111,112)  
pp; 31 DwgNo 1/24

Title Terms: PREPAYMENT; CARD; SYSTEM; GENERATE; ENCRYPTION; KEY; DATA; SO;  
DECODE; CHARACTERISTIC; DATA; STORAGE; VARIABLE; INFORMATION; MEMORY  
Derwent Class: T04; T05  
International Patent Class (Main): G07F-007/08  
International Patent Class (Additional): G06K-017/00  
File Segment: EPI

Manual Codes (EPI/S-X): T04-A03A; T05-H02C3

46/9/9 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012697781 \*\*Image available\*\*

WPI Acc No: 1999-503890/199942

XRPX Acc No: N99-376701

License issue system for CD-ROM, DVD - writes decoding key , frequency of duplication data stored in encrypted form on master card to user IC card and when copy is performed from user IC card , duplication dummy data is subtracted

Patent Assignee: NIPPON CHEMICON CORP (NIEM )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11219291	A	19990810	JP 9835484	A	19980202	199942 B

Priority Applications (No Type Date): JP 9835484 A 19980202

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11219291	A	11	G06F-009/06	

Abstract (Basic): JP 11219291 A

NOVELTY - A master IC card (6) stores the decoding data and frequency of duplication data, which are written to the user IC card (8), in an encrypted form using common key data. Whenever a copy is performed using user IC card , the frequency of duplication data is subtracted.

USE - For preventing unauthorized usage of storage devices like CD-ROM, DVD which store licensed software.

ADVANTAGE - Prevents usage of decoding key by unauthorized personnel. Ensures high security. DESCRIPTION OF DRAWING(S) - The diagram shows the perspective view of license issue system. (6) Master IC card; (8) User IC card.

Dwg.1/7

Title Terms: LICENCE; ISSUE; SYSTEM; CD; ROM; WRITING; DECODE; KEY; FREQUENCY; DUPLICATE; DATA; STORAGE; ENCRYPTION; FORM; MASTER; CARD; USER ; IC; CARD; COPY; PERFORMANCE; USER; IC; CARD; DUPLICATE; DUMMY; DATA; SUBTRACT

Derwent Class: P85; T01; W01

International Patent Class (Main): G06F-009/06

International Patent Class (Additional): G06F-012/14 ; G09C-001/00;

H04L-009/10; H04L-009/32

File Segment: EPI; EngPI

Manual Codes (EPI/S-X): T01-F06; T01-H01C2; W01-A05A; W01-A05B

46/9/12 (Item 12 from file: 347)

DIALOG(R)File 347:JAPIO

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07910363 \*\*Image available\*\*

ENCRYPTION SYSTEM UTILIZING IC CARD

PUB. NO.: 2004-023122 [JP 2004023122 A]

PUBLISHED: January 22, 2004 (20040122)

INVENTOR(s): ISHIDAIRA IKU

APPLICANT(s): DAINIPPON PRINTING CO LTD

APPL. NO.: 2002-171116 [JP 2002171116]  
FILED: June 12, 2002 (20020612)  
INTL CLASS: H04L-009/08; B42D-015/10 ; G06K-019/10; G09C-001/00;  
H04L-009/32

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide an encryption system adopting a generating method of an encryption key capable of securely restoring an original encryption key only with comparatively simple information stored by an owner of an IC card when the IC card **storing** the encryption **key** is missing in a system wherein the encryption of files in a personal computer is provided.

SOLUTION: The encryption system to solve the problem is configured such that the personal computer is provided with an encryption key generating means that generates the encryption key on the basis of a password designated by the owner of the IC card and code information recorded in advance in the IC card and records the encryption key in the IC card as the encryption key used by the owner of the IC card. Thus, even when the card owner loses the IC card, the owner designates the password the same as the password above for a new IC card recording the code information to restore the encryption key having been recorded in the missing IC card to the new IC card .

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46/9/15 (Item 15 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07729711 \*\*Image available\*\*  
METHOD OF CONTROLLING APPLICATION OF IC CARD

PUB. NO.: 2003-223613 [JP 2003223613 A]  
PUBLISHED: August 08, 2003 (20030808)  
INVENTOR(s): NAKAMURA SATOSHI  
APPLICANT(s): DAINIPPON PRINTING CO LTD  
APPL. NO.: 2002-019322 [JP 200219322]  
FILED: January 29, 2002 (20020129)  
INTL CLASS: G06K-017/00 ; B42D-015/10 ; G06F-001/00 ; G06F-003/06;  
G06F-003/08; G06K-019/07 ; G06K-019/10

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a method of controlling the application of an IC card capable of deleting, after use, the application allowed to use one time only, preventing the application from being used again, and capable of efficiently utilizing a memory.

SOLUTION: This method of controlling the application of the IC card comprises the steps of registering authentication data used for mutual authentications correspondingly with a **key** for load and a **key** for deletion before the IC card is issued, performing the first mutual authentication based on the **key** for load and the authentication data after the application and the **key** for load are inputted into the IC card, loading the application into the IC card, performing the second mutual authentication based on the key for deletion and the authentication data after a first processing is performed by the IC card based on the loaded application, deleting the application from the IC card, and deleting



the key for deleting from the IC card .

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46/9/17 (Item 17 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07616693 \*\*Image available\*\*  
SYSTEM AND METHOD FOR DISTRIBUTING INFORMATION

PUB. NO.: 2003-110542 [JP 2003110542 A]  
PUBLISHED: April 11, 2003 (20030411)  
INVENTOR(s): MORIYOSHI KUNIHARU  
NAKATSUKA SHIGEO  
APPLICANT(s): MITSUBISHI ELECTRIC CORP  
APPL. NO.: 2001-295092 [JP 2001295092]  
FILED: September 26, 2001 (20010926)  
INTL CLASS: H04L-009/08; G06F-012/14 ; G06F-017/60; G06K-017/00 ;  
H04L-009/10

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a device for acquiring copyright by enciphering contents and purchasing a decipher key for reproducing, a device for moving and charging the acquired copyright, and a measures of security for the decipher key for reproducing and the contents.

SOLUTION: The contents of music information or video information are enciphered and distributed and a key for deciphering these contents is stored on an IC card so that security can be improved. In the case of reproducing, the decipher key is extracted from the IC card and supplied to a program dedicated to contents reproducing. Two IC cards storing the decipher key are connected, the decipher key on one IC card can be moved to the other IC card. In this case, a charge for the copyright movement is collected.

COPYRIGHT: (C)2003,JPO

46/9/37 (Item 37 from file: 347)  
DIALOG(R)File 347:JAPIO  
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04205935 \*\*Image available\*\*  
METHOD FOR PREVENTING IC MEMORY CARD FROM BEING COPIED

PUB. NO.: 05-197635 [JP 5197635 A]  
PUBLISHED: August 06, 1993 (19930806)  
INVENTOR(s): KADOOKA YOSHIMASA  
ISHIZAKI MASAYUKI  
SATO KAZUO  
HAYAKAWA MARIKO  
APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 04-009098 [JP 929098]  
FILED: January 22, 1992 (19920122)  
INTL CLASS: [5] G06F-012/14 ; G06K-017/00 ; G06K-019/073  
JAPIO CLASS: 45.2 (INFORMATION PROCESSING -- Memory Units); 45.3

(INFORMATION PROCESSING -- Input Output Units)  
JAPIO KEYWORD:R131 (INFORMATION PROCESSING -- Microcomputers &  
Microprocessors)  
JOURNAL: Section: P, Section No. 1646, Vol. 17, No. 624, Pg. 28,  
November 17, 1993 (19931117)

ABSTRACT

PURPOSE: To prevent the contents of an IC memory card legally acquired by a certain user from being illegally copied to the own IC memory card of the third person concerning the copy preventing method for the IC memory card.

CONSTITUTION: First key information is written in a card attribute recording part 12 of an IC memory card 11, second key information is written in headers 14 of respective files in the file recording part 13. Even when the contents of the file recording part 13 are copied to another IC memory card 11', at read terminals 30A and 30B, read is not permitted unless fixed corresponding relation is established between the first and second key information.

File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)  
(c) 2005 JPO & JAPIO  
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200529  
(c) 2005 Thomson Derwent  
File 348:EUROPEAN PATENTS 1978-2005/May W01  
(c) 2005 European Patent Office  
File 349:PCT FULLTEXT 1979-2005/UB=20050505,UT=20050428  
(c) 2005 WIPO/Univentio  
File 324:German Patents Fulltext 1967-200518  
(c) 2005 Univention

Set	Items	Description
S1	5900	AU=NISHIMURA S?
S2	3508	SMARTCARD? OR CHIPCARD? OR INTELLIGENTCARD? OR ICCARD? ? OR MICROCHIPCARD? OR HYPRIDCARD? OR COMBICARD? OR MULTICARD?
S3	164	MEMOCARD? OR MEMORYCARD? OR UNIVERSALCARD?
S4	334	SMARTCHIP? OR SMART()CHIP? ?
S5	1021	DIGITAL()(PURSE? ? OR WALLET? ?) OR ELECTRONIC()PURSE? ?
S6	4500	ICC OR ICCS
S7	324925	CARD OR CARDS
S8	8888	(MULTIAPPLICATION? OR MULTI()APPLICATION? OR STORED()VALUE? ? OR PREPAID OR PRE()PAID OR EFTS OR DUAL()INTERFACE?) (1W)S7
S9	43	ELECTRONIC()FUND? ?() (TRANSFERR? OR TRANSFER??? ?) (1W)S7
S10	24617	SINGLE(1W) (INLINE OR LINE) (1W) (MEMORY? OR MEMORIES) (1W)MODULE? ? OR SIM OR SIMS OR SIMM OR SIMMS
S11	58916	(SMART OR IC OR HYBRID OR INTEGRATED()CIRCUIT? OR INTELLIGENT OR PROCESS?R? ? OR MULTI OR MICROPROCESS?R? ?) (1W)S7
S12	12896	(MICROCHIP OR CONTACTLESS OR MEMO OR UNIVERSAL OR CONTACT - OR TWIN OR COMBI OR PROXIMITY OR VICINITY OR CHIP) (1W)S7
S13	31247	(TRANSACTION? ? OR MEMORY) (1W)S7
S14	2	TWINCARD? OR CONTACTCARD? OR TRANSACTIONCARD?
S15	519204	KEY? ? OR TOKEN? ?
S16	16489	(ENCRYPT? OR ENCIPHER? OR ENCYPHER? OR CRYPTO?) (1W) (DATA OR INFORMATION)
S17	13385	CIPHER? OR CYPHER?
S18	13171	S15:S17(3N) (DUPLICAT? OR COPY? OR COPIES OR COPIED OR REPLICAT? OR REPRODUC? OR REPLICA? OR RECREAT? OR RECONSTRUCT?)
S19	8660	S15:S17(3N) (RECORD? ? OR RECORDED OR RECORDING)
S20	636	S15:S17(3N) (REGENERAT? OR CLONE? ? OR CLONING)
S21	75	S15:S17(3N)RE() (PRODUC???? ? OR CREAT???? ? OR CONSTRUCT? - OR GENERAT???? ?)
S22	32326	S15:S17(3N) (WRITE? ? OR WRITTEN OR WROTE OR SAVE? ? OR SAVING OR STORAGE OR STORE OR STORES OR STORED OR STORING)
S23	17907	S15:S17(3N) (TRANSFERR? OR TRANSFER??? ? OR EXCHANG? OR UPLOAD? OR DOWNLOAD? OR LOAD??? ? OR SWAP? OR ACQUIR? OR ACQUISITION?)
S24	861	S15:S17(3N) (EXPORT? OR IMPORT? ? OR IMPORTED OR IMPORTING - OR IMPORTATION?)
S25	48319	S15:S17(3N) (SEND??? ? OR SENT OR TRANSMIS? OR TRANSMIT? OR XFER? OR RECEIV? OR RECEPTION OR RECEIPT?)
S26	10402	(S2:S6 OR S8:S14) (20N)S15:S17
S27	8	S1 AND S26

27/9/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07376927 \*\*Image available\*\*  
IC CARD, IC CARD TERMINAL DEVICE AND METHOD FOR DUPLICATING IC CARD

PUB. NO.: 2002-245427 [JP 2002245427 A]

PUBLISHED: August 30, 2002 (20020830)  
INVENTOR(s): NISHIMURA SAORI  
APPLICANT(s): TOSHIBA CORP  
APPL. NO.: 2001-043630 [JP 200143630]  
FILED: February 20, 2001 (20010220)  
INTL CLASS: G06K-019/07; B42D-015/10; G06K-017/00; G09C-001/00;  
H04L-009/10

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide an IC card from which a key for enciphering or decoding internally stored data can be safely fetched to the outside.

SOLUTION: This IC card has a decoding key for decoding data generated in the inside or set from the outside and an enciphering key for ciphering the data, enciphers the decoding key and the enciphering key by a plurality of different keys set in the IC card and subsequently transmits the enciphered decoding key and the enciphered enciphering key when a key fetch instruction for fetching the decoding key and the enciphering key in the IC card to the outside is inputted.

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27/9/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2005 JPO & JAPIO. All rts. reserv.

07110600 \*\*Image available\*\*  
DEVICE AND METHOD FOR ISSUING IC CARD

PUB. NO.: 2001-338267 [JP 2001338267 A]  
PUBLISHED: December 07, 2001 (20011207)  
INVENTOR(s): NISHIMURA SAORI  
APPLICANT(s): TOSHIBA CORP  
APPL. NO.: 2000-158970 [JP 2000158970]  
FILED: May 29, 2000 (20000529)  
INTL CLASS: G06K-017/00; B42D-015/10

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a device and a method for issuing IC card, by which confidential data which differ surely for each IC card, can be written on an IC card.

SOLUTION: A plurality of key data are stored in a key data file 10. A host computer 1 extracts the key data from among a key data group, stored in this key data file 10 and issues the IC card by writing these extracted key data via an issuing machine 12 to the data memory of the IC card 13. When the normal end of issue of the IC card is confirmed, the host computer 1 deletes the key data used for issuing that IC card, from the key data file 10.

COPYRIGHT: (C)2001, JPO

27/9/3 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014809037     \*\*Image available\*\*

WPI Acc No: 2002-629743/200268

XRFX Acc No: N02-497806

Integrated circuit card terminal unit in card issuing system,  
stores key taken out from original IC card, in backup card using  
card reader/writer by transmitting encoding key setting instruction to  
backup card

Patent Assignee: TOSHIBA KK (TOKE ); NISHIMURA S (NISH-I)

Inventor: NISHIMURA S

Number of Countries: 028 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1233381	A2	20020821	EP 2001124531	A	20011012	200268 B
US 20020114468	A1	20020822	US 2001976050	A	20011015	200268
JP 2002245427	A	20020830	JP 200143630	A	20010220	200273

Priority Applications (No Type Date): JP 200143630 A 20010220

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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EP 1233381	A2	E 49	G07F-007/10	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI TR

US 20020114468	A1		H04L-009/00
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JP 2002245427	A	20	G06K-019/07
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Abstract (Basic): EP 1233381 A2

NOVELTY - A personal terminal unit (300) takes out a key stored  
in a original IC card (TC) using a card reader/writer (306a) by  
transmitting a key takeout instruction to the original IC card,  
and stores the key in a backup card using a card reader/writer (306b)  
by transmitting an encoding key setting instruction to the backup  
card.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the  
following:

(1) IC card duplication method; and

(2) IC card processing system.

USE - Used in IC card issuing system.

ADVANTAGE - Generates a duplicate or backup card easily by safely  
storing a key taken out from the original IC card, in the backup  
card.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of  
the card processing system.

Personal terminal unit (300)

Card reader/writer (306a, 306b)

pp; 49 DwgNo 13/31

Title Terms: INTEGRATE; CIRCUIT; CARD; TERMINAL; UNIT; CARD; ISSUE; SYSTEM;

STORAGE; KEY; ORIGINAL; IC; CARD; CARD; CARD; READ; WRITING; TRANSMIT;

ENCODE; KEY; SET; INSTRUCTION; CARD

Derwent Class: T04; T05

International Patent Class (Main): G06K-019/07; G07F-007/10; H04L-009/00

International Patent Class (Additional): B42D-015/10; G06K-017/00;

G06K-019/073; G09C-001/00; H04L-009/10

File Segment: EPI

Manual Codes (EPI/S-X): T04-K02; T05-H02C5C; T05-L03C5

.27/9/4     (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013851362      \*\*Image available\*\*

WPI Acc No: 2001-335575/200135

XRFX Acc No: N01-242256

IC card issuing system sending key setting command and key from  
system to card

Patent Assignee: TOSHIBA KK (TOKE ); NISHIMURA S (NISH-I)

Inventor: NISHIMURA S

Number of Countries: 011 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200126046	A1	20010412	WO 99JP5388	A	19990930	200135 B
EP 1220148	A1	20020703	EP 99974074	A	19990930	200251
			WO 99JP5388	A	19990930	
US 20020134832	A1	20020926	WO 99JP5388	A	19990930	200265
			US 2002109047	A	20020329	
JP 2001528931	X	20030422	WO 99JP5388	A	19990930	200336
			JP 2001528931	A	19990930	
US 6585155	B2	20030701	WO 99JP5388	A	19990930	200345
			US 2002109047	A	20020329	

Priority Applications (No Type Date): WO 99JP5388 A 19990930

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200126046 A1 J 42 G06K-017/00

Designated States (National): JP US

Designated States (Regional): DE FR GB

EP 1220148 A1 E G06K-017/00 Based on patent WO 200126046

Designated States (Regional): AL DE FR GB LT LV MK RO SI

US 20020134832 A1 G06F-007/08 Cont of application WO 99JP5388

JP 2001528931 X G06K-017/00 Based on patent WO 200126046

US 6585155 B2 G06F-007/08 Cont of application WO 99JP5388

Abstract (Basic): WO 200126046 A1

NOVELTY - The card issuing method sends a key setting command accompanied by a key from an IC card issuing device to an IC card , allowing the IC card to receive the key setting command and setting the key accompanying the key setting command in the IC card , sending a special key setting command accompanied by a key from the IC card issuing device to the IC card .

USE - IC card issuing system

DESCRIPTION OF DRAWING(S) - The figure (containing non-English Language text ) shows IC card issuing method.

pp; 42 DwgNo 14/14

Title Terms: IC; CARD; ISSUE; SYSTEM; SEND; KEY; SET; COMMAND; KEY; SYSTEM; CARD

Derwent Class: T01; T04

International Patent Class (Main): G06F-007/08; G06K-017/00

International Patent Class (Additional): G06K-019/073; G06K-019/10

File Segment: EPI

Manual Codes (EPI/S-X): T01-D01; T01-H01B3A; T01-H01C2; T04-K

27/5/5 (Item 1 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01506586

IC card issuance system

Ausgabesystem fur IC-Karten

Systeme d'emission de cartes a puce

PATENT ASSIGNEE:

Kabushiki Kaisha Toshiba, (2077103), 1-1, Shibaura 1-chome, Minato-ku,  
Tokyo, (JP), (Applicant designated States: all)

INVENTOR:

Nishimura, Saori , c/o Kabushiki Kaisha Toshiba, Intell. Prop. Div., 1-1  
Shibaura 1-chome Minato-ku Tokyo 105, (JP)

LEGAL REPRESENTATIVE:

Kramer - Barske - Schmiedtchen (102191), European Patent Attorneys  
Patenta Radeckestrasse 43, 81245 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1260944 A2 021127 (Basic)  
EP 1260944 A3 031105

APPLICATION (CC, No, Date): EP 2001130682 011221;

PRIORITY (CC, No, Date): JP 2001143529 010514

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G07F-007/10

ABSTRACT EP 1260944 A2

The present invention provides an IC card issuance system (200, 205)  
that issues an IC card by writing issuance data including an ID specific  
to the IC card into a memory of the IC card, wherein, when reissuing an  
IC card identical to an issued IC card, an ID of an IC card to be  
reissued is read out from the IC card. A record having an ID that  
corresponds to the read out ID is retrieved and output from an issuance  
file (F11) having stored issuance data of the issued IC card therein, and  
reissuing of the IC card is based on the output record (issuance data).

ABSTRACT WORD COUNT: 109

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 021127 A2 Published application without search report

Examination: 021127 A2 Date of request for examination: 20011221

Search Report: 031105 A3 Separate publication of the search report

Change: 040428 A2 Legal representative(s) changed 20040310

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200248	1055
SPEC A	(English)	200248	8999
Total word count - document A			10054
Total word count - document B			0
Total word count - documents A + B			10054

27/5/6 (Item 2 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01444291

IC card terminal unit and IC card duplication method

Chipkartenterminal und Chipkartenduplizierverfahren

Terminal pour cartes a puce et methode pour la duplication de cartes a puce

PATENT ASSIGNEE:

Kabushiki Kaisha Toshiba, (2077103), 1-1, Shibaura 1-chome, Minato-ku,  
Tokyo, (JP), (Applicant designated States: all)

INVENTOR:

Nishimura, Saori , Intel. Propt. Div., K. K. Toshiba, 1-1-Shibaura,  
1-chome, Minato-ku, Tokyo 105-8001, (JP)

LEGAL REPRESENTATIVE:

Kramer - Barske - Schmiedtchen (102191), European Patent Attorneys  
Patenta Radeckestrasse 43, 81245 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1233381 A2 020821 (Basic)  
EP 1233381 A3 030319

APPLICATION (CC, No, Date): EP 2001124531 011012;

PRIORITY (CC, No, Date): JP 200143630 010220

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G07F-007/10; G06K-019/073

ABSTRACT EP 1233381 A2

In the case of an IC card having a decoding key for decoding data and an encoding key for encoding the data which are generated inside or set by an external unit, when a key takeout instruction for taking out the decoding key and encoding key in the IC card to an external unit is input, the decoding key and encoding key are encoded by a plurality of other keys set in the IC card and then transmitted to an external unit.

ABSTRACT WORD COUNT: 83

NOTE:

Figure number on first page: 13

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 020821 A2 Published application without search report

Examination: 020821 A2 Date of request for examination: 20011012

Search Report: 030319 A3 Separate publication of the search report

Examination: 040407 A2 Date of dispatch of the first examination  
report: 20040220

Change: 040428 A2 Legal representative(s) changed 20040310

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	200234	1584
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SPEC A	(English)	200234	9639
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Total word count - document A	11223
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Total word count - document B	0
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Total word count - documents A + B	11223
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27/5/7 (Item 3 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01288200

IC CARD, IC CARD ISSUING DEVICE, IC CARD ISSUING SYSTEM, AND IC CARD  
ISSUING METHOD

CHIPKARTE UND VORRICHTUNG, SYSTEM UND VERFAHREN ZU IHRER AUSGABE

CARTE A MICROCIRCUIT, ET DISPOSITIF, SYSTEME ET PROCEDE DE PRODUCTION DE  
CARTES A MICROCIRCUIT

PATENT ASSIGNEE:

Kabushiki Kaisha Toshiba, (213134), 1-1, Shibaura 1-chome, Minato-ku,  
Tokyo 105, (JP), (Applicant designated States: all)

INVENTOR:

NISHIMURA, Saori , 70, Yanagicho, Saiwai-ku, Kawasaki-shi, Kanagawa  
210-85, (JP)

LEGAL REPRESENTATIVE:

Kramer - Barske - Schmiedtchen (102191), European Patent Attorneys

Patenta Radeckestrasse 43, 81245 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1220148 A1 020703 (Basic)

WO 200126046 010412

APPLICATION (CC, No, Date): EP 99974074 990930; WO 99JP5388 990930

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI



INTERNATIONAL PATENT CLASS: G06K-017/00; G06K-019/073

ABSTRACT EP 1220148 A1

An IC card issuing apparatus sends a key setting command accompanied with a key to an IC card. The IC card receives the key setting command and the key accompanying the key setting command is set to the IC card. The IC card issuing apparatus sends a special key setting command accompanied with a key to the IC card. The IC card receives the special key setting command and the key accompanying the key setting command is set to the IC card. Further, a set key process result is generated based on all keys set to the IC card. The IC card sends the set key process result to the IC card issuing apparatus. The IC card issuing apparatus receives the set key process result, and confirms whether a normal key is set to the IC card based on the set key process result.

ABSTRACT WORD COUNT: 145

NOTE:

Figure number on first page: 014

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 010606 A1 International application. (Art. 158(1))

Application: 010606 A1 International application entering European phase

Application: 020703 A1 Published application with search report

Examination: 020703 A1 Date of request for examination: 20020416

Search Report: 030205 A1 Date of drawing up and dispatch of supplementary: search report 20021220

Change: 030205 A1 International Patent Classification changed: 20021217

Change: 030205 A1 International Patent Classification changed: 20021217

Examination: 031029 A1 Date of dispatch of the first examination report: 20030916

Change: 040428 A1 Legal representative(s) changed 20040310

LANGUAGE (Publication, Procedural, Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200227	1743
SPEC A	(English)	200227	6322
Total word count - document A			8065
Total word count - document B			0
Total word count - documents A + B			8065

27/5/8 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00792526 \*\*Image available\*\*

IC CARD, IC CARD ISSUING DEVICE, IC CARD ISSUING SYSTEM, AND IC CARD ISSUING METHOD

CARTE A MICROCIRCUIT, ET DISPOSITIF, SYSTEME ET PROCEDE DE PRODUCTION DE CARTES A MICROCIRCUIT

Patent Applicant/Assignee:

KABUSHIKI KAISHA TOSHIBA, 72, Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa 210-8572, JP, JP (Residence), JP (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

NISHIMURA Saori, 70, Yanagicho, Saiwai-ku, Kawasaki-shi, Kanagawa 210-8501, JP, JP (Residence), JP (Nationality), (Designated only for:

US

Legal Representative:

SUZUYE Takehiko (et al) (agent), Suzuye & Suzuye, 7-2, Kasumigaseki  
3-chome, Chiyoda-ku, Tokyo 100-0013, JP,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200126046 A1 20010412 (WO 0126046)

Application: WO 99JP5388 19990930 (PCT/WO JP9905388)

Priority Application: WO 99JP5388 19990930

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

JP US

(EP) DE FR GB

Main International Patent Class: G06K-017/00

International Patent Class: G06K-019/073

Publication Language: Japanese

Filing Language: Japanese

English Abstract

An IC card issuing method characterized by comprising sending a key setting command accompanied by a key from an IC card issuing device to an IC card, allowing the IC card to receive the key setting command and setting the key accompanying the key setting command in the IC card, sending a special key setting command accompanied by a key from the IC card issuing device to the IC card, allowing the IC card to receive the special key setting command and setting the key accompanying the special key setting command in the IC card, generating the results of the set key processing based on all the keys set in the IC card, sending the results from the IC card to the IC card issuing device, allowing the IC card issuing device to receive the results, and confirming whether or not a regular key is set in the IC card based on the results.

French Abstract

L'invention concerne un procede de production de cartes a microcircuit caracterise en ce qu'il consiste a envoyer un ordre de definition de clef accompagne d'une clef d'un dispositif de production de cartes a microcircuit a une carte a microcircuit, a autoriser la reception, par la carte a microcircuit, de l'ordre de definition de clef et a definir la clef accompagnant l'ordre de definition de clef au niveau de la carte a microcircuit, a envoyer un ordre de definition de clef special accompagne d'un clef du dispositif de production de cartes a microcircuit a la carte a microcircuit, a autoriser la reception, par la carte a microcircuit, de l'ordre de definition de clef special et a definir la clef accompagnant l'ordre de definition de clef special au niveau de la carte a microcircuit, a generer les resultats du traitement de la clef definie sur la base de toutes les clefs definies dans la carte a microcircuit, a envoyer ces resultats de la carte a microcircuit au dispositif de production de cartes a microcircuit, a autoriser la reception des resultats par le dispositif de production de cartes a microcircuit, et a confirmer, sur la base de ces resultats, si une clef standard est definie dans la carte a microcircuit.

Legal Status (Type, Date, Text)

Publication 20010412 A1 With international search report.

Examination 20010510 Request for preliminary examination prior to end of  
19th month from priority date

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